Safety Data Sheet
EASY TOUCH – STREAM LCD/TFT FOAM CLEANER

Safety Data Sheet dated 8/2/2007, version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name: PRONOX – STREAM LCD/TFT FOAM CLEANER
Trade code: ET-118
Product type and use: Cleansing foam in Aerosols

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

5% - 7% ethanol
N.67/548/EEC: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6
F; R11

1% - 3% isopropanol
N.67/548/EEC: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7
F,Xi; R11-36-67

1% - 3% butane [1]
N.67/548/EEC: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7
F+; R12

1% - 3% and isobutane [2]
N.67/548/EEC: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2
F+; R12

1% - 3% propane
N.67/548/EEC: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9
F+; R12

0% - 1% Butylphenyl methylpropional
CAS: 80-54-6
Xn R22 R43

0% - 1% Citronellol
CAS: 106-22-9
N Xi R38 R43 R51/53

See paragraph 16 for R phrases complete text.

3. HAZARDS IDENTIFICATION

Properties / Symbols:
F+ Extremely flammable
R Phrases:
R12 Extremely flammable.

4. FIRST AID MEASURES

Contact with skin:
Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
Contact with eyes:
Wash immediately with water for at least 10 minutes.

Swallowing:

Do not induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.

A suspension of activated charcoal in water, or liquid paraffin may be administered.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION.

5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

Water, CO2, Foam, Chemical powders, according to the materials involved in the fire.

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

Avoid inhaling the fumes. For combustion can be form toxic gas.

Protective equipment:

Use protection for the respiratory tract.

Cool the containers exposed to the fire with water.

The aerosol containers explode if overheated and can be throwed to a great distance.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

Rapidly recover the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions:

Pressurized container. Do not pierce, do not burn, do not tamper with the valve, neither after use.

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Do not eat or drink while working.

Do not smoke while working.

Storage conditions:

Always keep in a well ventilated place.

Do not expose to a temperature upper than 50 °C. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources.

Store only in original and closed packages.

Do not store into passages or stairs.

Keep containers in safety position avoiding possibility of falls and crashes.

Instructions as regards storage premises:

Cool and adequately ventilated. Keep it dry.

Safety electric system.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary measures:
Give adequate ventilation to the premises where the product is stored and/or handled.
Respiratory protection:
Not needed for normal use.
Protection for hands:
Use protective gloves that provides comprehensive protection, solvent-resistant, e.g. PVC, neoprene or rubber (EN 374).
Eye protection:
Use close fitting safety goggles and/or visor conforming to EN 166.
Protection for skin:
No special precaution must be adopted for normal use.
Exposure limit(s) (ACGIH):
ethanol
TLV-TWA: 1000 ppm, A4 - 1884,25 mg/m3, TLV-STEL: A4
isopropanol
TLV-TWA: 200 ppm, A4 - 491,53 mg/m3, A4 TLV-STEL: 400 ppm, A4 - 983,07 mg/m3, A4
butane [1]
TLV-TWA: 1000 ppm
and isobutane [2]
TLV-TWA: 1000 ppm
propane
TLV-TWA: 1000 ppm
ethane
TLV-TWA: 1000 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	White liquid under pressure (aerosol)
Odour:	Fragrance
pH:	8
Melting point:	< 0 °C (active matter)
Boiling point:	< 100 °C (active matter)
Flash point:	< -80 °C (liquid gas)
Autoignition temperature:	400 °C (liquid gas)
Vapour pressure:	3.2 bar at 20 °C
Relative density:	0,98 kg/l (active matter)
Solubility in water:	Yes
Lipid solubility:	In alcohol, esters, ketones

10. STABILITY AND REACTIVITY

Stability:
The containers may explode if overheated to a temperature up to 50 °C.
Conditions to avoid:
Stable under normal conditions.
Substances to avoid:
Avoid high oxidative products and acid or basic products, which can attack the container.
Avoid contact with combustible materials. The product could catch fire.
Hazardous decomposition products:
Fumes, carbon oxides and other harmful gases.

11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.
Set out below is the toxicological information relating to the main substances in the preparation.
ethanol

Eyes: slight irritation
Skin: slight irritation
Inhalation: vapours may have a narcotic effect
Toxicity: effects by short or prolonged exposition not known.

isopropanol

Acute toxicity:
LD50 oral > 2000 mg/kg
LD50 skin > 2000 mg/kg
Irritation:
Skin: slighty irritant.
Eyes: irritant.
Effects on human health:
Repeated exposure may cause drowsiness and dizziness. Repeated or prolonged contact with skin may cause skin dryness or cracking.

12. ECOLOGICAL INFORMATION

Adopt sound working practices, so that the product is not released into the environment.

13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.
Waste code (2001/118/EC): 16 05 04 gases in pressure containers (including halons) containing dangerous substances

14. TRANSPORT INFORMATION

Road (ADR):	2/-
Classification code (ADR):	5F
LQ:	2
UN number:	UN 1950 AEROSOLS
Air (ICAO/IATA):	2.1/-/-
Aerosols, flammable	
Sea (IMO):	2/-
Aerosols	
EmS:	F-D, S-U
Marine pollutant:	n.a.

15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commmission Directive 1999/45/CE (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 2001/58/CE (Safety data sheets). Commission Directive 98/24/CE (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/CE (Occupational exposure limit values).
Symbols:

F+ Extremely flammable

R Phrases:

R12 Extremely flammable.

S Phrases:

S16 Keep away from sources of ignition - No smoking.
S2 Keep out of reach of children.
S43 In case of fire, use... CO2, Foam, Chemical powders, according to the materials involved in the fire.
S46 If swallowed, seek medical advice immediately and show this container or label.
S9 Keep container in a well-ventilated place.

Contents (Reg. EC 648/2004): aliphatic hydrocarbons <5%, amphoteric surfactants <5%, cationic surfactants <5%, parfum, Butylphenyl methylpropional, Citronellol.

Special Provisions:

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children.

Warning:

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.
Do not pierce or burn even after use. Avoid direct inhalation and spray into the eyes.
Do not spray on naked flames or any incandescent material. Take precautionary measures against static discharges.
Keep away from sources of ignition – No smoking. Keep out of the reach of children.
Avoid excessive or improper use that may cause possible heap of flammable gases in the air.
Operate in aired place or air immediately after use. Use the product out of flames, heat sources, working electric devices.

Where applicable, refer to the following regulatory provisions :

Regulation (EC) No. 648/2004 ('Detergents').
Directive 2003/105/CE ('Activities linked to risks of serious accidents').

16. OTHER INFORMATION

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
ACGIH - Threshold Limit Values - 2004 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.
Paragraphs modified from the previous revision:

3. HAZARDS IDENTIFICATION

Text of R phrases referred to under heading 2:

R11 Highly flammable.
R12 Extremely flammable.
R22 Harmful if swallowed.
R38 Irritating to skin.
R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.